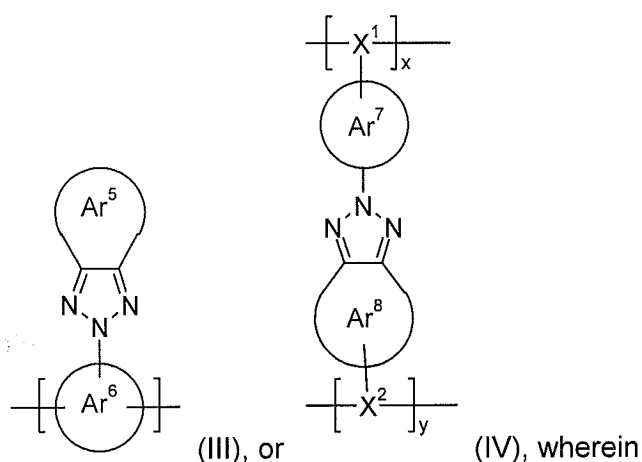
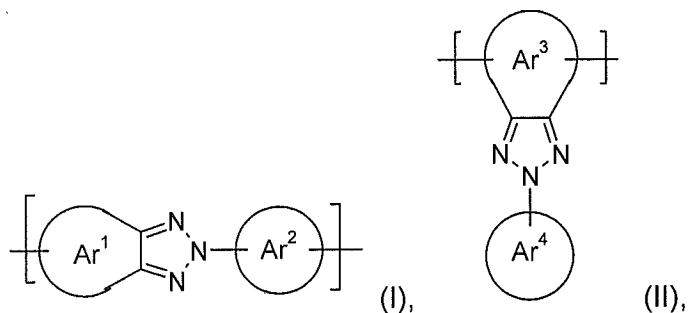


In the claims:

1. (previously presented) A polymer comprising a repeating unit of the formula

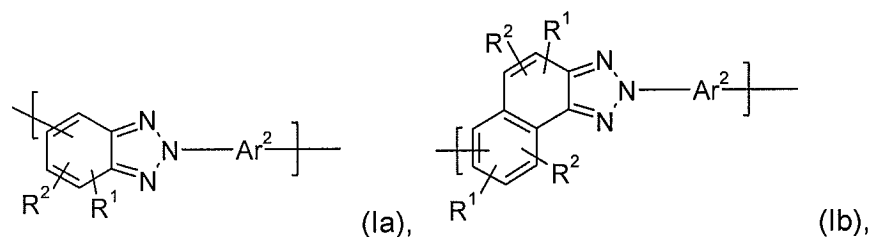


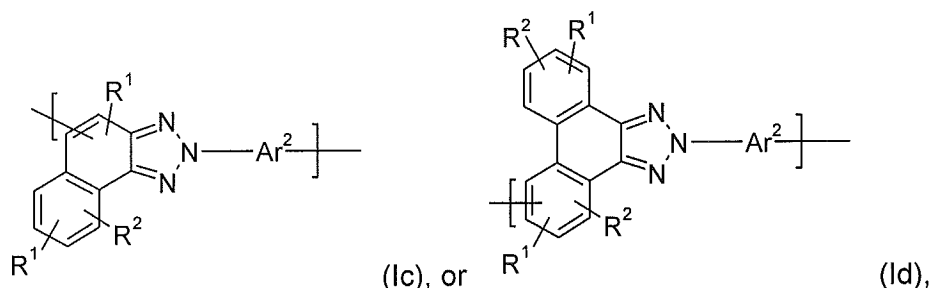
x and y are independently of each other 0 or 1,

X¹ and X² are independently of each other a divalent linking group,

Ar¹, Ar², Ar³, Ar⁴, Ar⁵, Ar⁶, Ar⁷ and Ar⁸ are independently of each other an aryl group, or a heteroaryl group, which can optionally be substituted.

2. (previously presented) A polymer according to claim 1, comprising a repeating unit of the formula

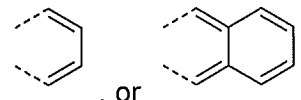




wherein Ar^2 is as defined in claim 1,

R^1 and R^2 are independently of each other H, halogen, SO_3^- , C_1-C_{18} alkyl, C_1-C_{18} alkyl which is substituted by E and/or interrupted by D, C_1-C_{18} perfluoroalkyl, C_6-C_{24} aryl, C_6-C_{24} aryl which is substituted by G, C_2-C_{20} heteroaryl, C_2-C_{20} heteroaryl which is substituted by G, C_2-C_{18} alkenyl, C_2-C_{18} alkynyl, C_1-C_{18} alkoxy, C_1-C_{18} alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25} aralkyl, or $-CO-R^{28}$,

or two substituents R^1 and R^2 , which are adjacent to each other, are a group



D is $-CO-$; $-COO-$; $-S-$; $-SO-$; $-SO_2-$; $-O-$; $-NR^{25}-$; $-SiR^{30}R^{31}-$; $-POR^{32}-$; $-CR^{23}=CR^{24}-$; or $-C\equiv C-$; and

E is $-OR^{29}$; $-SR^{29}$; $-NR^{25}R^{26}$; $-COR^{28}$; $-COOR^{27}$; $-CONR^{25}R^{26}$; $-CN$; $-OCOOR^{27}$; or halogen; G is E, or C_1-C_{18} alkyl, wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; C_6-C_{18} aryl; C_6-C_{18} aryl which is substituted by C_1-C_{18} alkyl, or C_1-C_{18} alkoxy; C_1-C_{18} alkyl; or C_1-C_{18} alkyl which is interrupted by $-O-$; or

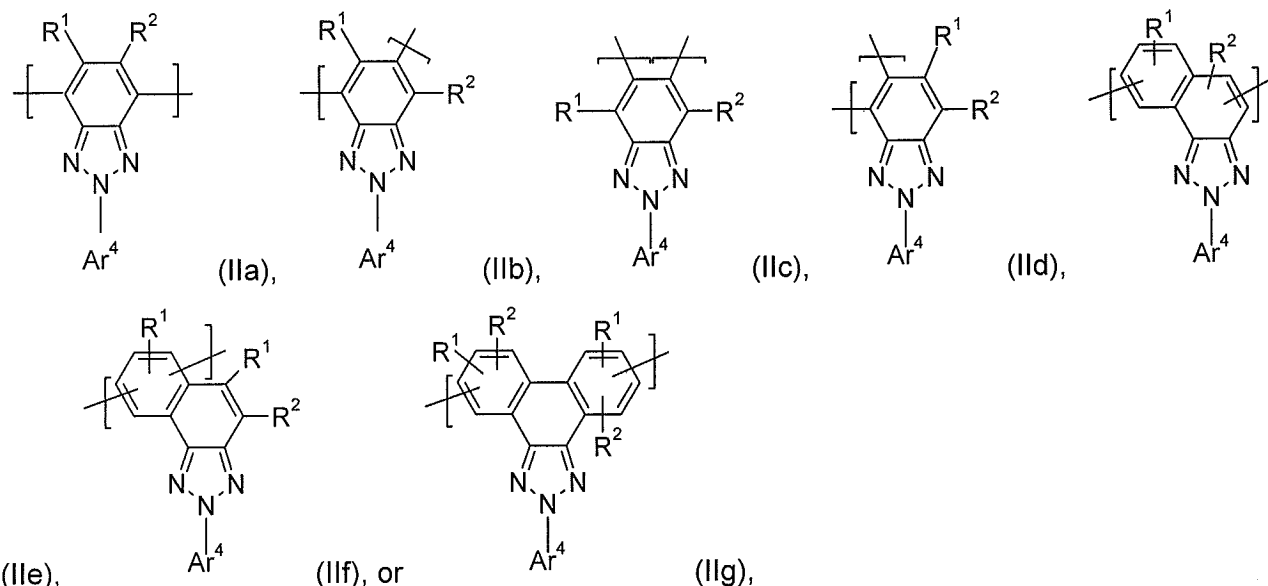
R^{25} and R^{26} together form a five or six membered ring, R^{27} and R^{28} are independently of each other H; C_6-C_{18} aryl; C_6-C_{18} aryl which is substituted by C_1-C_{18} alkyl, or C_1-C_{18} alkoxy; C_1-C_{18} alkyl; or C_1-C_{18} alkyl which is interrupted by $-O-$,

R^{29} is H; C_6-C_{18} aryl; C_6-C_{18} aryl, which is substituted by C_1-C_{18} alkyl, or C_1-C_{18} alkoxy; C_1-C_{18} alkyl; or C_1-C_{18} alkyl which is interrupted by $-O-$,

R^{30} and R^{31} are independently of each other C_1-C_{18} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{18} alkyl, and

R^{32} is C_1-C_{18} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{18} alkyl.

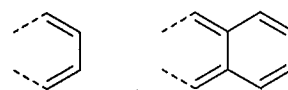
3. (previously presented) A polymer according to claim 1, comprising a repeating unit of the formula



wherein Ar^4 is as defined in claim 1,

R^1 and R^2 are independently of each other H, halogen, SO_3^- , $\text{C}_1\text{-C}_{18}\text{alkyl}$, $\text{C}_1\text{-C}_{18}\text{alkyl}$ which is substituted by E and/or interrupted by D, $\text{C}_1\text{-C}_{18}\text{perfluoroalkyl}$, $\text{C}_6\text{-C}_{24}\text{aryl}$, $\text{C}_6\text{-C}_{24}\text{aryl}$ which is substituted by G, $\text{C}_2\text{-C}_{20}\text{heteroaryl}$, $\text{C}_2\text{-C}_{20}\text{heteroaryl}$ which is substituted by G, $\text{C}_2\text{-C}_{18}\text{alkenyl}$, $\text{C}_2\text{-C}_{18}\text{alkynyl}$, $\text{C}_1\text{-C}_{18}\text{alkoxy}$, $\text{C}_1\text{-C}_{18}\text{alkoxy}$ which is substituted by E and/or interrupted by D, $\text{C}_7\text{-C}_{25}\text{aralkyl}$, or $-\text{CO}-\text{R}^{28}$,

or two substituents R^1 and R^2 , which are adjacent to each other, are a group



D is $-\text{CO}-$; $-\text{COO}-$; $-\text{S}-$; $-\text{SO}-$; $-\text{SO}_2-$; $-\text{O}-$; $-\text{NR}^{25}-$; $-\text{SiR}^{30}\text{R}^{31}-$; $-\text{POR}^{32}-$; $-\text{CR}^{23}=\text{CR}^{24}-$; or $-\text{C}\equiv\text{C}-$; and E is $-\text{OR}^{29}$; $-\text{SR}^{29}$; $-\text{NR}^{25}\text{R}^{26}$; $-\text{COR}^{28}$; $-\text{COOR}^{27}$; $-\text{CONR}^{25}\text{R}^{26}$; $-\text{CN}$; $-\text{OCOOR}^{27}$; or halogen; G is E, or $\text{C}_1\text{-C}_{18}\text{alkyl}$, wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$ which is substituted by $\text{C}_1\text{-C}_{18}\text{alkyl}$, or $\text{C}_1\text{-C}_{18}\text{alkoxy}$; $\text{C}_1\text{-C}_{18}\text{alkyl}$; or $\text{C}_1\text{-C}_{18}\text{alkyl}$ which is interrupted by $-\text{O}-$; or

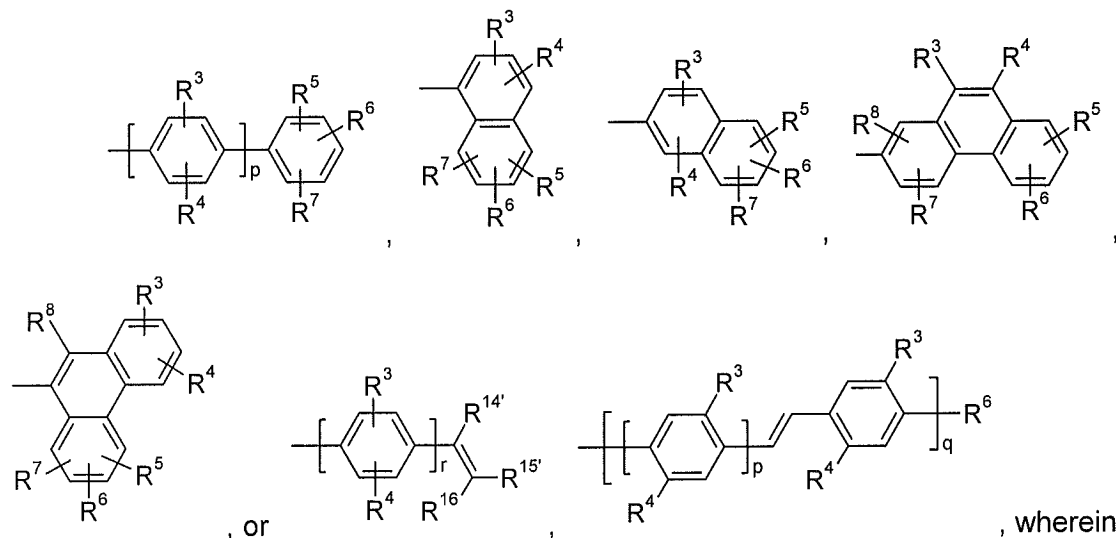
R^{25} and R^{26} together form a five or six membered ring, R^{27} and R^{28} are independently of each other H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$ which is substituted by $\text{C}_1\text{-C}_{18}\text{alkyl}$, or $\text{C}_1\text{-C}_{18}\text{alkoxy}$; $\text{C}_1\text{-C}_{18}\text{alkyl}$; or $\text{C}_1\text{-C}_{18}\text{alkyl}$ which is interrupted by $-\text{O}-$,

R^{29} is H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$, which is substituted by $\text{C}_1\text{-C}_{18}\text{alkyl}$, or $\text{C}_1\text{-C}_{18}\text{alkoxy}$; $\text{C}_1\text{-C}_{18}\text{alkyl}$; or $\text{C}_1\text{-C}_{18}\text{alkyl}$ which is interrupted by $-\text{O}-$,

R^{30} and R^{31} are independently of each other $\text{C}_1\text{-C}_{18}\text{alkyl}$, $\text{C}_6\text{-C}_{18}\text{aryl}$, or $\text{C}_6\text{-C}_{18}\text{aryl}$, which is substituted by $\text{C}_1\text{-C}_{18}\text{alkyl}$, and

R^{32} is $\text{C}_1\text{-C}_{18}\text{alkyl}$, $\text{C}_6\text{-C}_{18}\text{aryl}$, or $\text{C}_6\text{-C}_{18}\text{aryl}$, which is substituted by $\text{C}_1\text{-C}_{18}\text{alkyl}$.

4. (previously presented) A polymer according to claim 3, wherein Ar⁴ is a group of formula



p is an integer from 1 to 10,

q is an integer from 1 to 10,

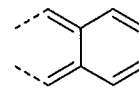
r is an integer of 0 to 10,

R³ to R⁸ are independently of each other H, halogen, SO₃⁻, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by G, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by G, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, or -CO-R²⁸, or

two substituents R³ to R⁸, which are adjacent to each other, are a group



, or



, and

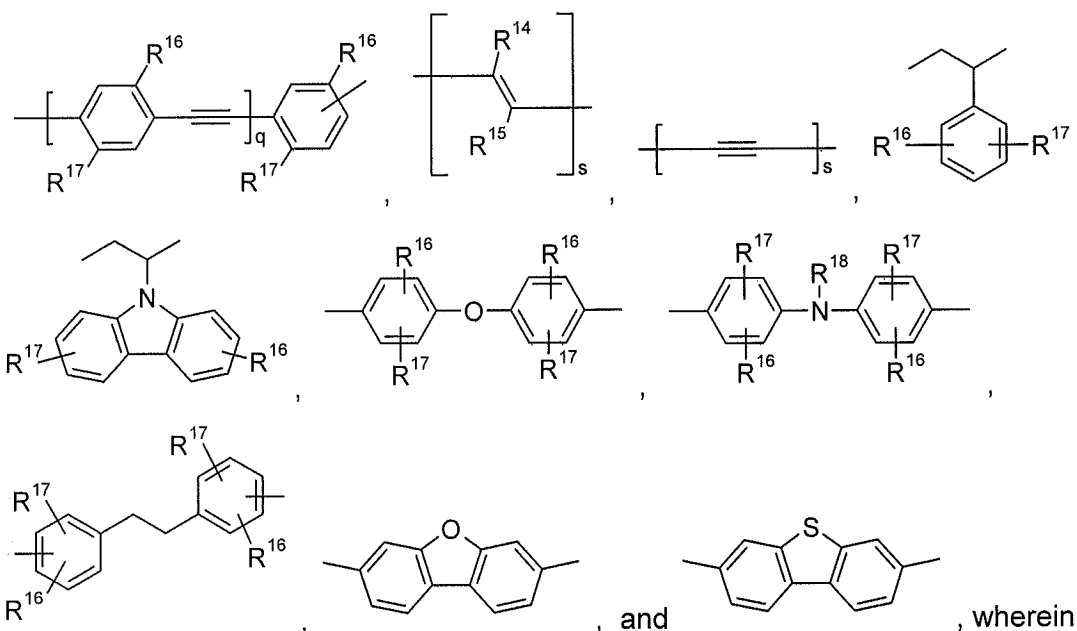
R^{14'} and R^{15'} are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by G, C₂-C₂₀heteroaryl, or C₂-C₂₀heteroaryl which is substituted by G,

R¹⁶ is C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, which optionally can be substituted, wherein

D is -CO-, -COO-, -S-, -SO-, -SO₂-, -O-, -NR²⁵-, -SiR³⁰R³¹-, -POR³²-, -CR²³=CR²⁴-, or -C≡C-; and

E is -OR²⁹-, -SR²⁹-, -NR²⁵R²⁶-, -COR²⁸-, -COOR²⁷-, -CONR²⁵R²⁶-, -CN-, -OCOOR²⁷-, or halogen; G is E, or C₁-C₁₈alkyl, wherein

R²³, R²⁴, R²⁵ and R²⁶ are independently of each other H; C₆-C₁₈aryl; C₆-C₁₈aryl which is substituted by C₁-C₁₈alkyl, C₁-C₁₈alkoxy; C₁-C₁₈alkyl; or C₁-C₁₈alkyl which is interrupted by -O-; or



p is an integer from 1 to 10,

q is an integer from 1 to 10,

s is an integer from 1 to 10,

R^{14} and R^{15} are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, or C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by G,

R^{16} and R^{17} are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, C_2 - C_{20} heteroaryl, or C_2 - C_{20} heteroaryl which is substituted by G, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, or $-CO-R^{28}$,

R^{18} is H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy; C_1 - C_{18} alkyl; or C_1 - C_{18} alkyl which is interrupted by $-O-$;

R^{19} and R^{20} are independently of each other C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by G, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl, or

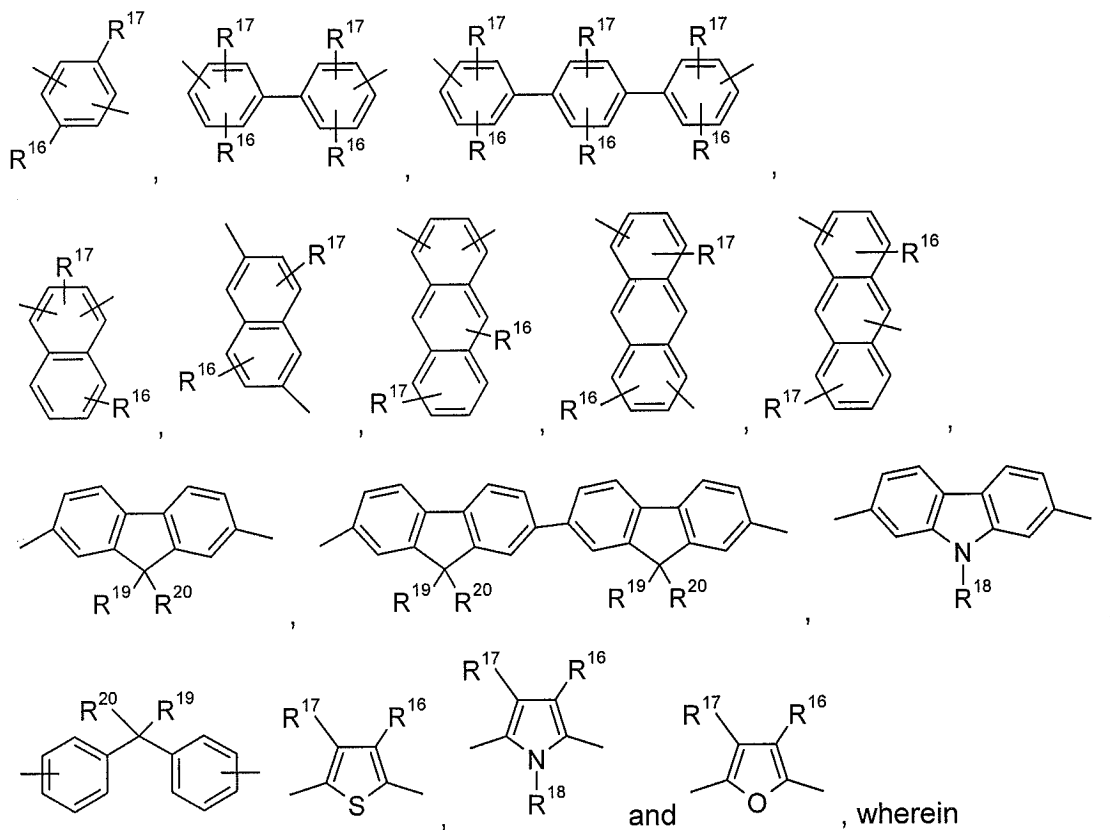
R^{19} and R^{20} together form a group of formula $=CR^{100}R^{101}$, wherein

R^{100} and R^{101} are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, C_2 - C_{20} heteroaryl, or C_2 - C_{20} heteroaryl which is substituted by G, or

R^{19} and R^{20} form a ring, which can optionally be substituted, and

D, E and G are as defined in claim 2.

6. (previously presented) A polymer according to claim 5, wherein T is selected from the group consisting of

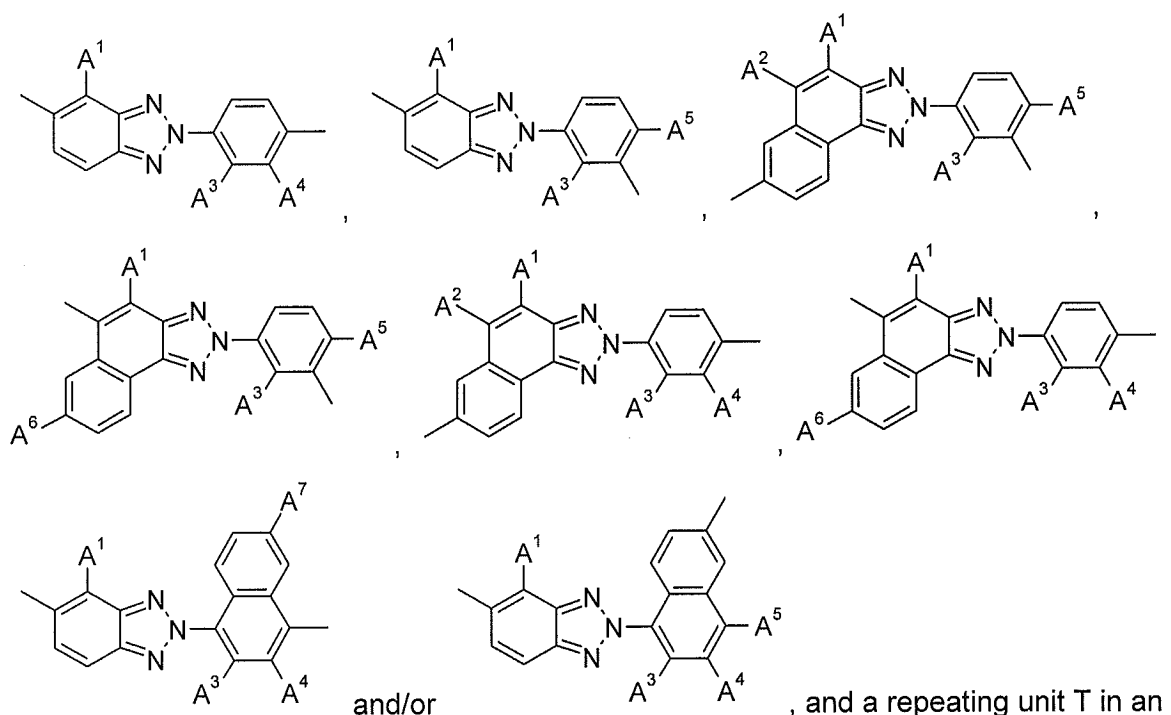


R^{18} is C_1 - C_{18} alkyl, and

R^{19} and R^{20} are independently of each other C_1 - C_{18} alkyl, especially C_4 - C_{12} alkyl, which can be interrupted by one or two oxygen atoms, or

R^{19} and R^{20} form a five or six membered carbocyclic ring, which optionally can be substituted by C_1 - C_4 alkyl.

7. (currently amended) A polymer according claim 5 [[1]], comprising a repeating unit of the formula



up to 99.5 mol%, wherein the sum of the repeating unit(s) and the co-monomer is 100 mol%, wherein

A¹ is hydrogen, or C₁-C₁₈alkyl,

A² is hydrogen, or C₁-C₁₈alkyl,

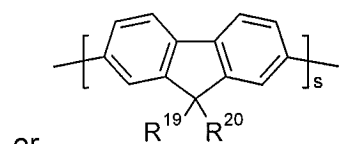
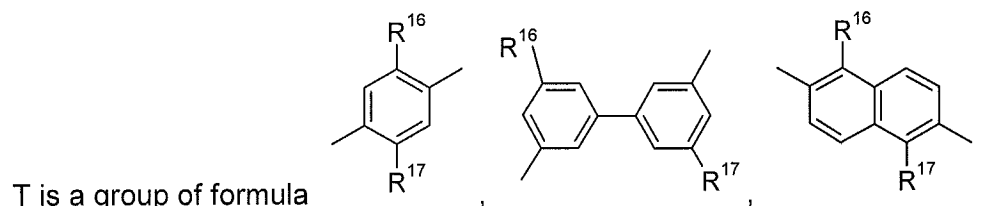
A³ is hydrogen, or C₁-C₁₈alkoxy, or C₁-C₁₈alkyl,

A⁴ is hydrogen, or C₁-C₁₈alkyl,

A⁵ is hydrogen, C₁-C₁₈alkyl, di(C₁-C₁₈alkyl)amino, or C₁-C₁₈alkoxy,

A⁶ is hydrogen, or C₁-C₁₈alkyl,

A⁷ is hydrogen, C₁-C₁₈alkyl or C₁-C₁₈alkoxy, and

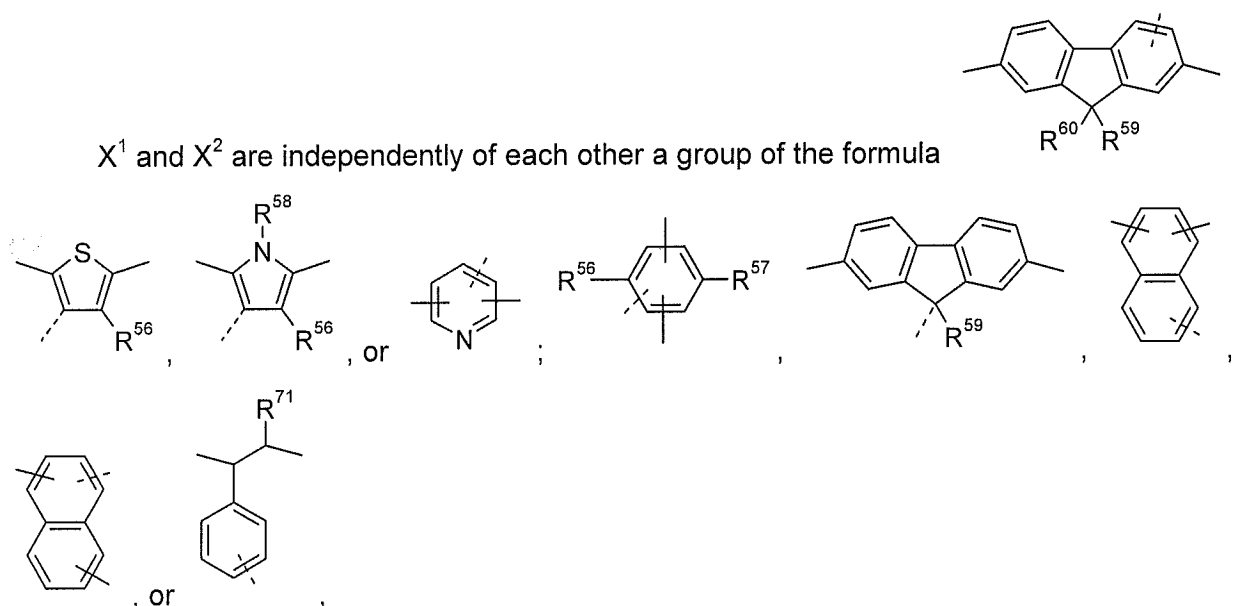


or , wherein s is one or two, R¹⁶ and R¹⁷ are independently of each other C₁-C₁₈alkyl, which can be interrupted by one or two oxygen atoms, C₁-C₁₈alkoxy, which can be interrupted by one or two oxygen atoms

and R¹⁹ and R²⁰ are independently of each other C₁-C₁₈alkyl, which can be interrupted by one or two oxygen atoms.

8. (currently amended) A polymer according to claim 5 **[[1]]**, comprising a repeating unit of the formula IV wherein

Ar⁷, Ar⁸ and are independently of each other a C₆-C₃₀aryl group, or a C₂-C₂₆heteroaryl group, which can optionally be substituted,



wherein the dotted line represent the bond to the benzotriazole unit,

R⁵⁶ and R⁵⁷ are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by G, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by G, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl,

R⁵⁸ is H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, or C₇-C₂₅aralkyl,

R⁵⁹ and R⁶⁰ are independently of each other H, C₁-C₁₈ alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by G, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by G, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl, or

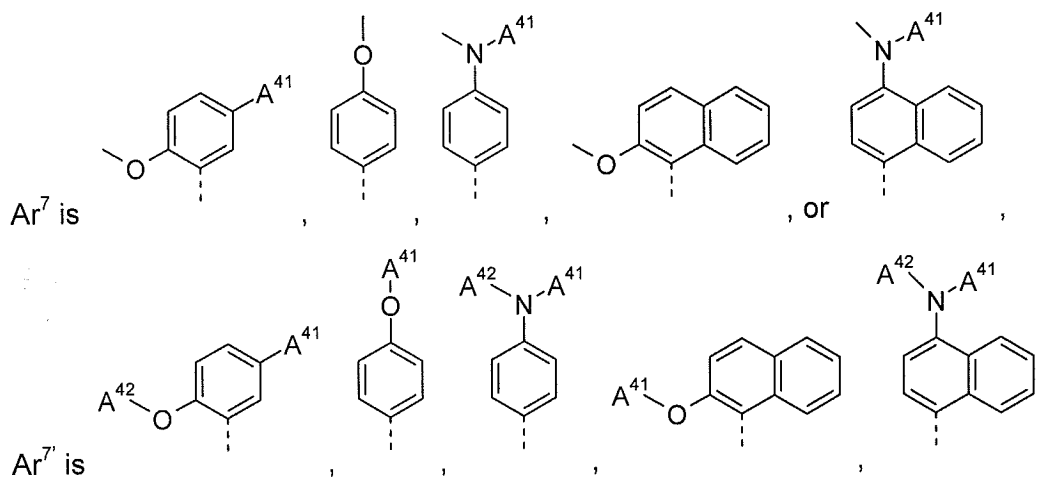
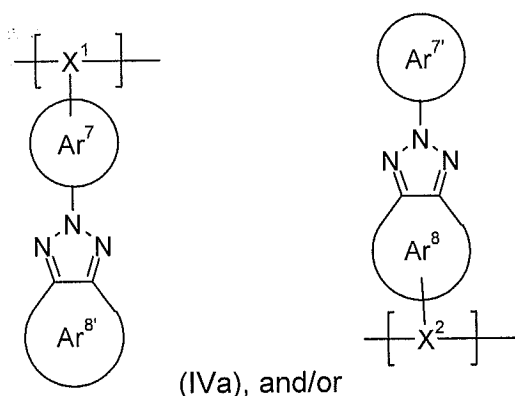
R⁵⁹ and R⁶⁰ form a ring, which can optionally be substituted,

R⁷¹ is H, C₁-C₁₈alkyl, -C≡N, -CONR²⁵R²⁶ or -COOR²⁷,

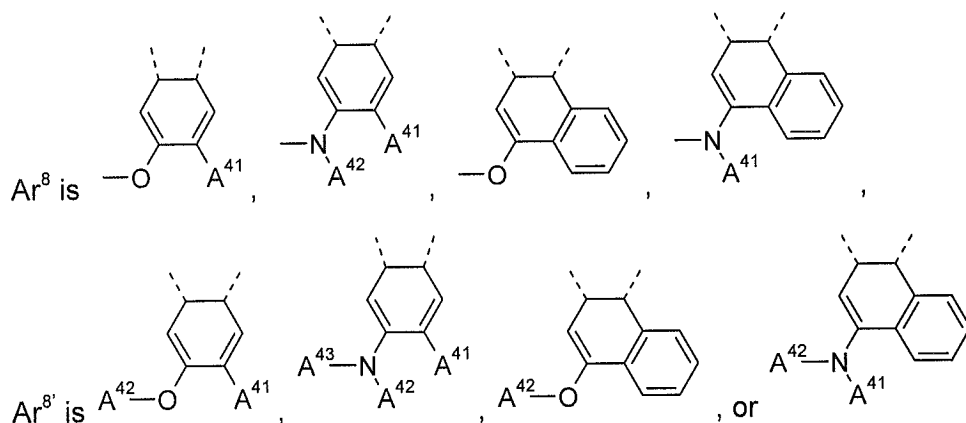
D is -CO-; -COO-; -OCOO-; -S-; -SO-; -SO₂-; -O-; -NR²⁵-; -SiR³⁰R³¹-; -POR³²-; -CR²³=CR²⁴-; or -C≡C-;
and

E is $-\text{OR}^{29}$; $-\text{SR}^{29}$; $-\text{NR}^{25}\text{R}^{26}$; $-\text{COR}^{28}$; $-\text{COOR}^{27}$; $-\text{CONR}^{25}\text{R}^{26}$; $-\text{CN}$; $-\text{OCOOR}^{27}$; or halogen; G is E, or $\text{C}_1\text{-C}_{18}\text{alkyl}$, wherein R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$ which is substituted by $\text{C}_1\text{-C}_{18}\text{alkyl}$, $\text{C}_1\text{-C}_{18}\text{alkoxy}$; $\text{C}_1\text{-C}_{18}\text{alkyl}$; or $\text{C}_1\text{-C}_{18}\text{alkyl}$ which is interrupted by $-\text{O}-$; or R^{25} and R^{26} together form a five or six membered ring, R^{27} and R^{28} are independently of each other H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$ which is substituted by $\text{C}_1\text{-C}_{18}\text{alkyl}$, or $\text{C}_1\text{-C}_{18}\text{alkoxy}$; $\text{C}_1\text{-C}_{18}\text{alkyl}$; or $\text{C}_1\text{-C}_{18}\text{alkyl}$ which is interrupted by $-\text{O}-$, and R^{29} is H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$ which is substituted by $\text{C}_1\text{-C}_{18}\text{alkyl}$, $\text{C}_1\text{-C}_{18}\text{alkoxy}$; $\text{C}_1\text{-C}_{18}\text{alkyl}$; or $\text{C}_1\text{-C}_{18}\text{alkyl}$ which is interrupted by $-\text{O}-$, R^{30} and R^{31} are independently of each other $\text{C}_1\text{-C}_{18}\text{alkyl}$, $\text{C}_6\text{-C}_{18}\text{aryl}$, or $\text{C}_6\text{-C}_{18}\text{aryl}$, which is substituted by $\text{C}_1\text{-C}_{18}\text{alkyl}$, and R^{32} is $\text{C}_1\text{-C}_{18}\text{alkyl}$, $\text{C}_6\text{-C}_{18}\text{aryl}$, or $\text{C}_6\text{-C}_{18}\text{aryl}$, which is substituted by $\text{C}_1\text{-C}_{18}\text{alkyl}$.

9. (currently amended) A polymer according to claim 8, comprising a repeating unit of the formula



wherein the dotted line is the bond to the nitrogen atom of the benzotriazole unit,

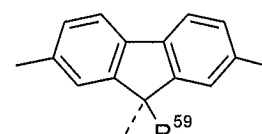


wherein the dotted lines are the bonds to the nitrogen atoms of the benzotriazole unit,

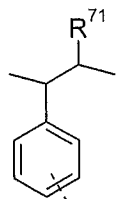
A⁴¹ is hydrogen, C₁-C₁₈alkoxy, or C₁-C₁₈alkyl,

A⁴² is hydrogen, or C₁-C₁₈alkyl,

A⁴³ is hydrogen, or C₁-C₁₈alkyl,



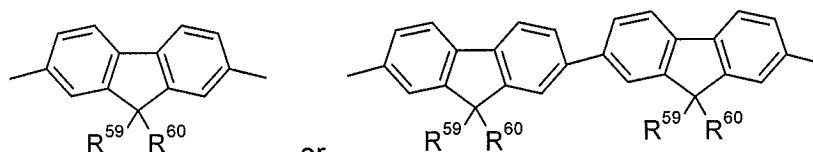
X¹ and X² are independently of each other a group of the formula



, wherein the dotted line represent the bond to the benzotriazole unit,

R⁷¹ is H, C₁-C₁₈alkyl, -C≡N, or -COOR²⁷, wherein

R²⁷ is H; or C₁-C₁₈alkyl, which can be interrupted by one or more oxygen atoms, and



T is a group of formula

, or

, wherein R⁵⁹

and R⁶⁰ are independently of each other C₁-C₁₈alkyl which can be interrupted by one or two oxygen atoms.

10. (currently amended) An optical device or a component therefore, comprising a substrate and a polymer according to claim 5. [[1.]]

11. (original) An optical device according to claim 10, wherein the optical device comprises an electroluminescent device.

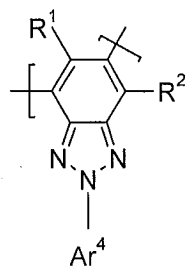
12. (currently amended) An optical device according to claim 11, wherein the electroluminescent device comprises

- (a) a reflective or transmissive anode
- (b) a reflective or transmissive cathode
- (c) an emissive layer comprising **[[a]]** ~~the polymer according to claim 1~~ located between the electrodes, and optionally
- (d) a charge injecting layer for injecting positive charge carriers, and
- (e) a charge injecting layer for injecting negative charge carriers.

13. (cancelled).

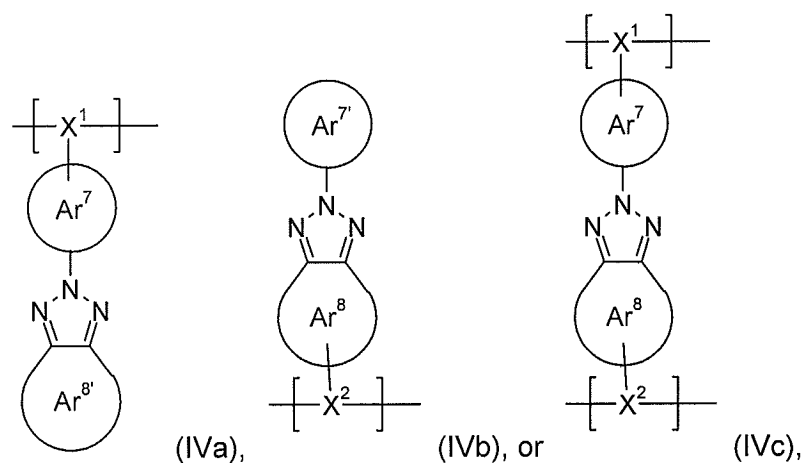
14. (previously presented) A polymer according to claim 1, wherein Ar^1 , Ar^2 , Ar^3 , Ar^4 , Ar^5 , Ar^6 , Ar^7 and Ar^8 are independently of each other a C_6 - C_{30} aryl group which can optionally be substituted, or a C_2 - C_{26} heteroaryl group, which can optionally be substituted.

15. (previously presented) A polymer according to claim 3, comprising a repeating unit of the formula



[[15]] 16. (currently amended) A polymer according to claim 4, wherein p is 1, 2 or 3, q is 1, 2 or 3 and r is 0, 1, 2 or 3.

17. (previously presented) A polymer according to claim 8, wherein the a repeating unit of the formula IV is selected from formula IVa, IVb and IVc

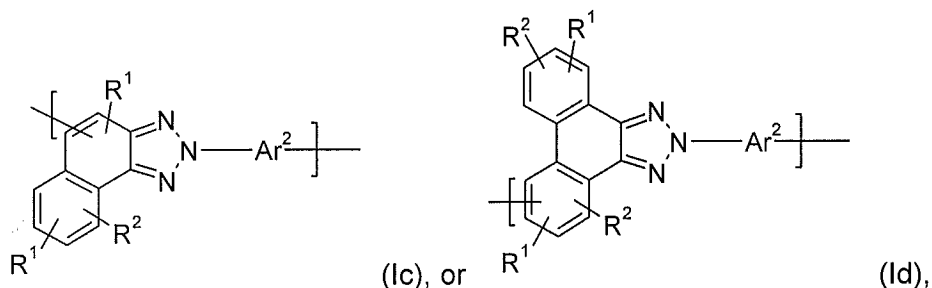
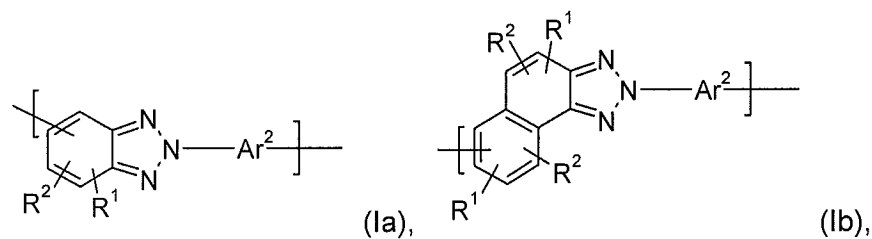


wherein

Ar^7 , Ar^8 and $\text{Ar}^{8'}$ are independently of each other a C_6 - C_{30} aryl group, or a C_2 - C_{26} heteroaryl group, which can optionally be substituted.

18. (cancelled).

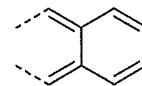
19. (new) A polymer according to claim 5, comprising a repeating unit of the formula



wherein Ar^2 is as defined in claim 1,

R^1 and R^2 are independently of each other H, halogen, SO_3^- , C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{18} perfluoroalkyl, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by G, C_2 - C_{18} alkenyl, C_2 -

C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, or -CO-R²⁸,



or two substituents R¹ and R², which are adjacent to each other, are a group , or ,
D is -CO-; -COO-; -S-; -SO-; -SO₂-; -O-; -NR²⁵-; -SiR³⁰R³¹-; -POR³²-; -CR²³=CR²⁴-; or -C≡C-; and
E is -OR²⁹; -SR²⁹; -NR²⁵R²⁶; -COR²⁸; -COOR²⁷; -CONR²⁵R²⁶; -CN; -OCOOR²⁷; or halogen; G is E, or
C₁-C₁₈alkyl, wherein

R²³, R²⁴, R²⁵ and R²⁶ are independently of each other H; C₆-C₁₈aryl; C₆-C₁₈aryl which is substituted by
C₁-C₁₈alkyl, or C₁-C₁₈alkoxy; C₁-C₁₈alkyl; or C₁-C₁₈alkyl which is interrupted by -O-; or

R²⁵ and R²⁶ together form a five or six membered ring, R²⁷ and R²⁸ are independently of each other H;
C₆-C₁₈aryl; C₆-C₁₈aryl which is substituted by C₁-C₁₈alkyl, or C₁-C₁₈alkoxy; C₁-C₁₈alkyl; or C₁-C₁₈alkyl
which is interrupted by -O-,

R²⁹ is H; C₆-C₁₈aryl; C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl, or C₁-C₁₈alkoxy; C₁-C₁₈alkyl; or C₁-
C₁₈alkyl which is interrupted by -O-,

R³⁰ and R³¹ are independently of each other C₁-C₁₈alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted
by C₁-C₁₈alkyl, and

R³² is C₁-C₁₈alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl.